



ACTIVITY 1

UNDERSTANDING WHAT YOU READ

Read the content for this topic then answer the following questions to see how much you understand about what you read.

1. What is the Winter solstice?
2. What day does the shortest day of the year fall on in 2015?
3. How many degrees is the Earth tilted?
4. When is the Summer Solstice or longest day in the Southern Hemisphere?
5. In the word SOLSTICE, SOL means sun. What does STICE mean?
6. Complete this sentence:- The lower the latitude, the _____ the day.
7. Ancient cultures celebrated the Winter Solstice recognising the return of what?
8. Where in Australia is an egg-shaped ring of stones built by Aboriginals?
9. Name two monuments constructed to show the rise or setting of the sun during the Winter Solstice.
10. During Roman times, what stopped around the Winter Solstice?



The sun sets on Stonehenge in England.



ACTIVITY 2

The Sun's Path

Fill in the missing words

The angle of the _____ in the sky changes throughout the _____ as the tilt of the _____ is relative to the sun.

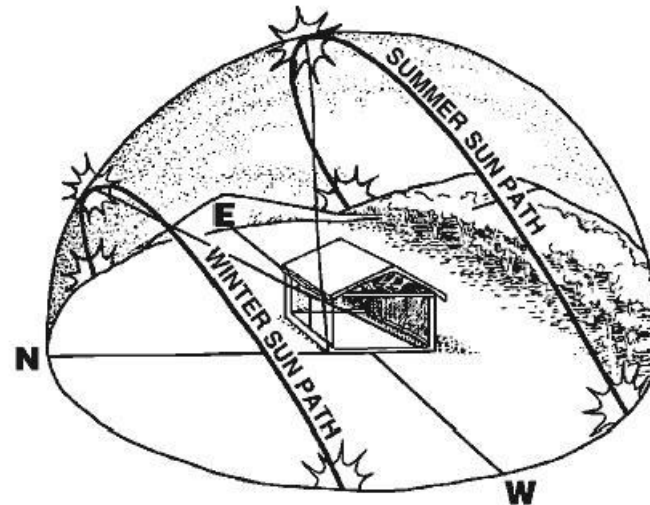
In summer the sun is _____ in the sky and is also in the sky for _____ as it travels through a longer _____ length.

In _____ the sun is lower in the _____ and is around for a shorter time as it _____ through a shorter arc.

This effect is accentuated the further you are away from the _____.

In _____ the days are very long in summer but very short in winter.

In Darwin there is much _____ variation.



Give this diagram a caption

arc ~ Earth ~ equator ~ high ~ less ~
longer ~ sky ~ Sun ~ Tasmania ~
travels ~ year ~ winter



ACTIVITY 3

Where is that?

The length of the day depends on the latitude where you are- **the higher the latitude, the shorter the day**. Answer the questions using the map to help you.



1. At latitude 23.5° is the Tropic of _____.(Cancer/Capricorn)
2. Which city is at 47°, 147° (approx)?
3. Which city has the shortest daylight hours in Perth or Adelaide?
4. Which two cities sit closest on line of latitude?
5. List in order the places shown from the shortest to longest daylight hours.



ACTIVITY 4

WORDS AT WORK

In Wordy News this week we defined the phrase MERCURY DROPS which was used in the following way:

WARMING UP | Firewood sales to increase as temperatures dip

Sales rise as mercury drops

ANYONE who's lucky enough to have a fireplace in their home knows that lighting it

Firewood Sales on Wyrallah Rd said he expected sales to increase next week with

yet but that will probably change soon." Mr Virtue said there was

The word 'drops' in this headline means to fall lower in condition, degree, value.

Below is a list of words that are synonyms for the word 'drops'. Put the words in the spiral puzzle. The last letter of a word is the first letter of the next word. The initial word has been done.

WORDS

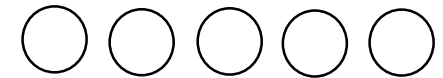
- dives
- drops
- fall
- lowers
- plummet
- plunges
- sinks
- slid
- slip
- slump
- toppled

→

F	A	L	L			○
○			○			
		○				○

↓

Write the letters that are circled.



Unscramble these to make an antonym of drops.





ACTIVITY 5

CHECK IT OUT

Who's inside your mind?

Disney Pixar's 'Inside Out' features a team of Emotions who help guide 11-year-old Riley through an unsettling change in her life.

Match the five 'emotions' with its description and image.

(two descriptions for each emotion)

EMOTION

Joy, Anger, Fear, Disgust, Sadness

DESCRIPTION

- is indecisive and tentative, but has good instincts and is sweet and loving,
- is light-hearted, optimistic and determined to find the fun in every situation.
- makes sure things are fair, has a fiery spirit and tends to explode when things don't go as planned.
- an insecure character who wants to help.
- is high-energy, fun-loving, over-caffeinated
- always has the best of intentions and refuses to lower her standards.
- is constantly on the lookout for potential disasters and spends time evaluating the possible dangers, pitfalls and risk
- is quick to overreact and has little patience for life's imperfections.
- a scaredy-cat, yet has a bit of a swagger.
- is highly opinionated, extremely honest and keeps a careful eye on the people, places and things that Riley comes into contact with.

IMAGE



ACTIVITY 6

NEWS IN THE SPOTLIGHT

Winter energy spike

Remember, energy and water efficiency can save you money on your bills and helps the environment.

Make a list of ways to save energy and water during the winter months.

At the end of each school day

At home



Make a poster to support the message 'save energy'.